

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN 03/00844

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup> G01C 21/00, G01S 13/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup> G01C 21/00, 21/10, 21/26, G01S 13/56, 13/52, 13/50, 13/02, 13/00, 5/14, 5/02, 5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Chinese Patent Document (1985~)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNPAT, WPI, EPODOC, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim
A	JP,A,6066577 (AISIN AW CO.,LTD) 08.MAR.1994 (08.03.94) See entire document	1-6
A	US,A,5890092 (AISIN AW CO.,LTD)30.MAR.1999 (30.03.99) See entire document	1-6
A	US,A,5276451 (PIONEER ELECTRONIC CORPORATION)04.JAN.1994 (04.01.94) See entire document	1-6
A	US,A,5307277 (SUMITOMO ELECTRIC INDUSTRIES,LTD)26.APR.1994 (26.04.94) See entire document	1-6
A	CN,A,1181498 (SAMSUNG ELECTRONICS CO., LTD.) 13.MAY.1998 (13.05.98) See entire document	1-6
A	CN,A,1181507 (SAMSUNG ELECTRONICS CO., LTD.) 13.MAY.1998 (13.05.98) See entire document	1-6

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
15. SEPTEMBER 2003(15.09.03)

Date of mailing of the international search report

27 NOV 2003 (27.11.03)

Name and mailing address of the ISA/CN  
6 Xitucheng Rd., Jimen Bridge, Haidian District,  
100088 Beijing, China  
Facsimile No. 86-10-62019451

Authorized officer

QIAN, Hongying

Telephone No. 86-10-62085731



# INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN 03/00844

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN,A,1168491 (DATA TEC CO. LTD) 12.NOV.1997 (12.11.97) See entire document	1-6
A	CN,Y,2442883 (BEIJING ZHONGKE HENGYE ZHONGZHI TECHNICAL CO. LTD) 15.AUG.2001 (15.08.01) See entire document	1-6

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CN 03/00844

Patent documber cited in search report	Publication date	Patent family member (s)	Publication date
JP,A,6066577	08-03-1994	NONE	
US,A,5890092	30-03-1999	EP,AB,0699894	06-03-96
		JP,A,8075485	22-03-96
		JP,B,2891403	17-05-99
		JP,A,8094367	12-04-96
		JP,B,2921413	19-07-99
		US,A,5796613	18-08-98
		DE,D,69526011	02-05-02
		DE,T,69526011	01-08-02
US,A,5276451	04-01-94	JP,A,5018777	26-01-93
		JP,B,3126751	22-01-01
		JP,A,5108776	26-01-93
		JP,B,3076088	14-08-00
		JP,A,5109036	26-01-93
		JP,B,2981025	22-11-99
		EP,AB,0527558	17-02-93
		DE,D,69206073	21-12-95
		DE,T,69206073	27-06-96
US,A,5307277	26-04-94	JP,A,4369424	22-12-92
		JP,B,7039960	01-05-95
		JP,C,2023954	26-02-96
		EP,AB,0519630	23-12-92
		DE,D,69204575	12-10-95
		KR,B,9700547	13-01-97
CN,A,1181498	13-05-98	EP,A,0840138	06-05-98
		CN,B,1069761	15-08-01
		JP,A,10148537	02-06-98
		KR,B,183299	15-04-99
		US,A,6014608	11-01-00
CN,A,1181507	13-05-98	EP,A,0840094	06-05-98
		CN,B,1081797	27-03-02
		JP,A,10141964	29-05-98
		KR,B,208804	15-07-99
CN,A,1168491	12-11-97	CA,AC,2172593	28-09-96

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CN 03/00844

Patent documber cited in search report	Publication date	Patent family member (s)	Publication date
		EP,AB,0735432	02-10-96
		AU,A,5032396	24-10-96
		JP,A,8328449	13-12-96
		JP,B,2875203	31-03-99
		EP,AB,0797126	24-09-97
		EP,AB,0797125	24-09-97
		CN,A,1164052	05-11-97
		CN,B,1096629	18-12-02
		CN,A,1176410	18-03-98
		JP,A,10153940	09-06-98
		AU,A,8081798	15-10-98
		US,A,5903803	11-05-99
		KR,B,258609	15-06-00
		US,A,6128454	03-10-00
		DE,D,69611116	11-01-01
		DE,T,69611116	10-05-01
		TW,B,420784	01-02-01
		US,B,6226478	01-05-01
		US,B,6240266	29-05-01
		HK,A,1012055	17-08-01
		US,A,6349188	19-02-02
		DE,D,69716798	12-12-02
		DE,D,69716783	19-12-02
		US,B,6501926	31-12-02
		US,B,6501927	31-12-02
CN,Y,2442883	15-08-01	NONE	